

#4  
4/3/02  
JD



22186  
PATENT TRADEMARK OFFICE

JC879 U.S. PTO  
10/016665



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Attorney Docket No. 1043.003

In re application of: Raúl A. Casas, Azzédine Touzni, Thomas J. Endres, Stephen L. Biracree, Christopher H. Strolle and Samir N. Hulyalkar

Serial No.: Not Yet Assigned  
Filed: Not Yet Assigned

Group No.: Not Yet Assigned  
Examiner: Not Yet Assigned

For: Linear Prediction Based Initialization Of A Single-Axis Blind Equalizer For VSB Signals

**INFORMATION DISCLOSURE STATEMENT**

Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Dear Sir:

In accordance with 37 CFR § 1.56, this is an Information Disclosure Statement (IDS) for the above-captioned U.S. patent application. An IDS Form PTO-1449 listing references is enclosed herewith and forms a part hereof.

Certification Under 37 CFR § 1.704(d)

- [ ] Each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this statement.

Certification Under 37 CFR § 1.97(e)

- [ ] Each item of information contained in this statement was either (1) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement or (2) not known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement.

\* \* \* \* \*

Certification Under 37 CFR 1.10

"Express Mail" Mailing Label No. EL875316915US

Date of Deposit

December 11, 2001.

I hereby certify that this paper or fee is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the U.S. Patent and Trademark Office, P.O. Box 2327, Arlington, VA 22202.

Mary E. Caniz  
(Name of person mailing)

Mary E. Caniz  
(Signature of person mailing)



Petition Under 37 CFR § 1.97(d)

- ☐ This is a petition requesting consideration of an IDS under § 1.97(d). The petition fee for submission of this IDS under § 1.97(d) is \$130.00 as set forth in § 1.17(i).

Provision of Copies of References

- ☒ A copy of each of the listed references is enclosed herewith and forms a part hereof.
- ☐ A translation of each of Reference(s) \_\_\_ is enclosed herewith and forms a part hereof.
- ☐ A copy of the International Search Report from a corresponding PCT application is enclosed herewith.
- ☐ A copy of the European Search Report from a corresponding EPO application is enclosed herewith.
- ☐ The above-captioned U.S. patent application is a
- ☐ continuation
  - ☐ divisional
  - ☐ continuation-in-part

application of U.S. application serial number \_\_\_\_, filed on \_\_\_\_ as Attorney Docket No. \_\_\_\_\_. Each of the listed references was previously cited by or submitted to the Office in the prior application. The above-captioned U.S. patent application relies upon the prior application for an earlier filing date under 35 U.S.C. 120. Pursuant to § 1.98(d), copies of the listed references are not being provided with this IDS.

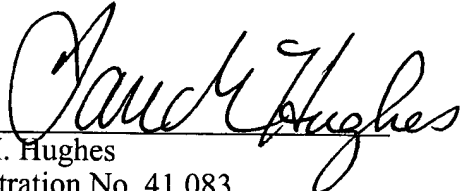
Authorization To Charge Deposit Account

- ☒ Authorization is given to charge **Deposit Account 50-0872** name of **Mendelsohn & Associates, P.C.** for any fee under § 1.97(c) and § 1.17(p) or under § 1.97(d) and § 1.17(i).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 form as confirmation that each of the documents has been considered.

Respectfully submitted,

Date: December 11, 2001  
Customer No. 22186  
Mendelsohn & Associates, P.C.  
1515 Market Street, Suite 715  
Philadelphia, Pennsylvania 19102

  
\_\_\_\_\_  
Ian M. Hughes  
Registration No. 41,083  
Attorney for Applicant  
(215) 557-6659

Enclosures

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Rev. 2-32) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

1043.003

Not yet assigned

APPLICANT

Raúl A. Casas, Azzédine Touzni, Thomas J. Endres,  
Stephen L. Biracree, Christopher H. Strolle and  
Samir N. Hulyalkar

FILING DATE

GROUP

Not yet assigned

Not yet assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,872,815	02/16/99	Strolle et al.			
	AB	5,909,466	06/01/99	Labat et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AC	"Phase recovery based on minimization of Single-Axis Constant Modulus criterion: Performance analysis" by A. Touzni, et al., 2001 Conference on Information Sciences and Systems, The John Hopkins University, March 21-23, 2001.
	AD	"A New Approach to Multipath Correction of Constant Modulus Signals" by John R. Treichler and Brian G. Agee, IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-31, No. 2, April 1983; pps. 459-471.
	AE	"Global Convergence of a Single-Axis Constant Modulus Algorithm" by A. Shah, et al., <u>Proceedings of the Statistical Signal and Array Processing Workshop</u> , Pocono Manor, PA, August 2000.
	AF	"Self-Recovering Equalization in Two-Dimensional Data Communications Systems" by D. N. Goddard, <u>IEEE Transactions on Communications</u> , Oct. 1980, Vol. 28, No. 11, pps. 1867-1875.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1043.003 U.S. PTO

10/016665

12/11/01